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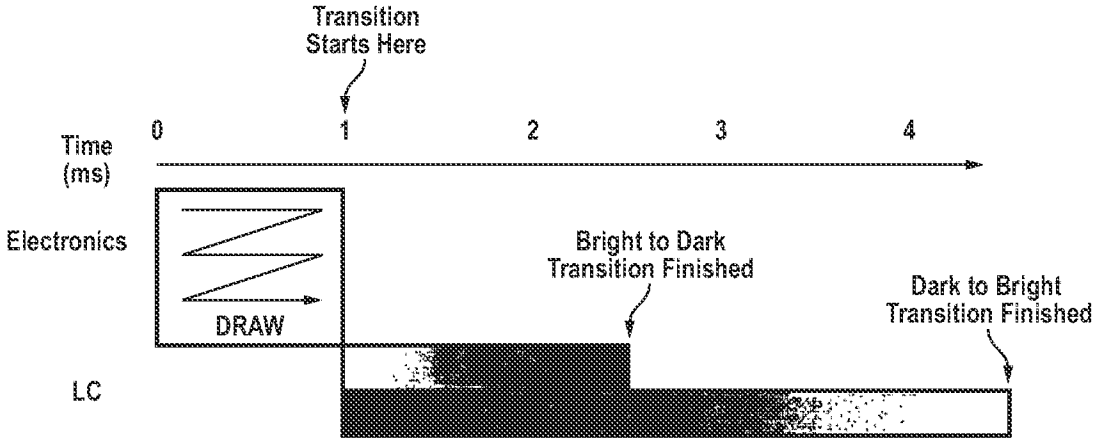

FIG. 1A

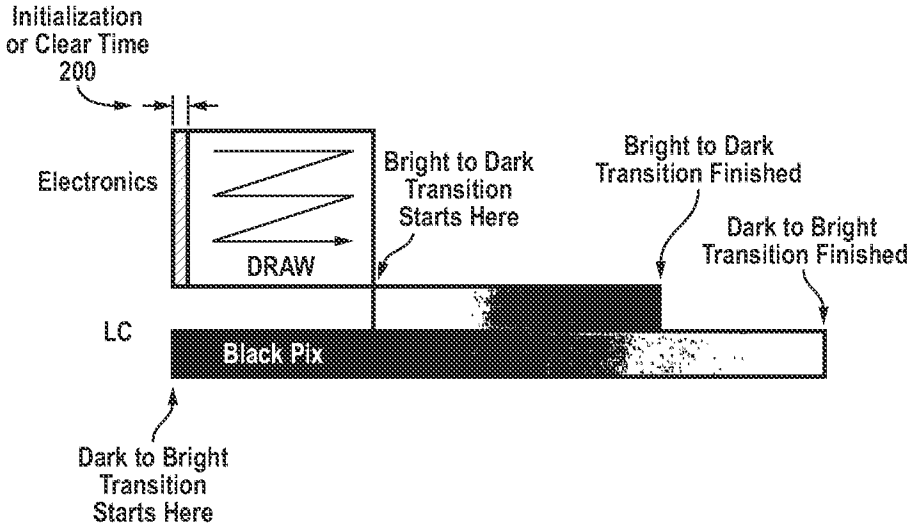

FIG. 2

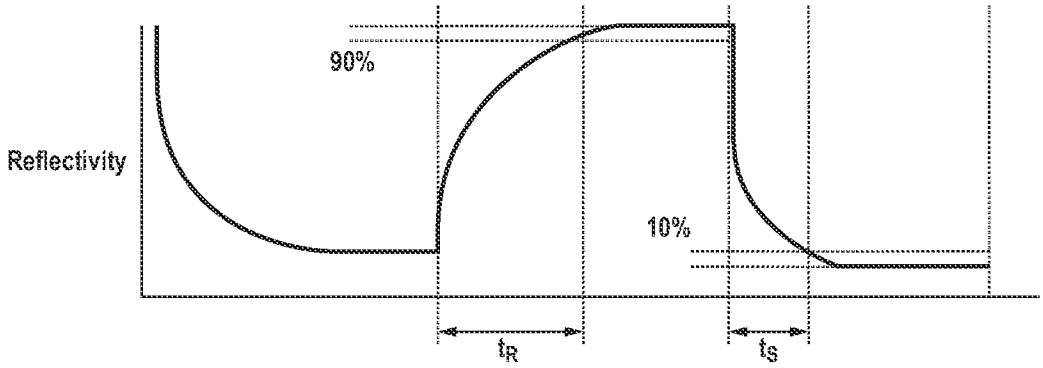

FIG. 1B

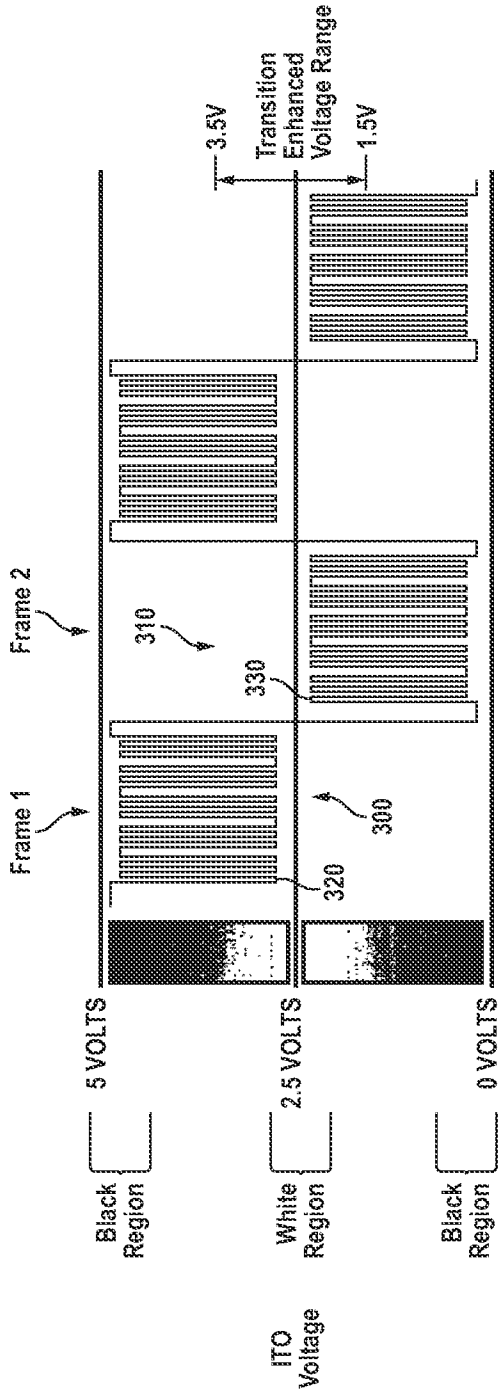
3.5V
Transition Enhanced Voltage Range
1.5V
Frame 2
310
330
Frame 1
300
320
5 VOLTS
2.5 VOLTS
0 VOLTS
Black Region
White Region
Black Region
ITO Voltage

FIG. 3

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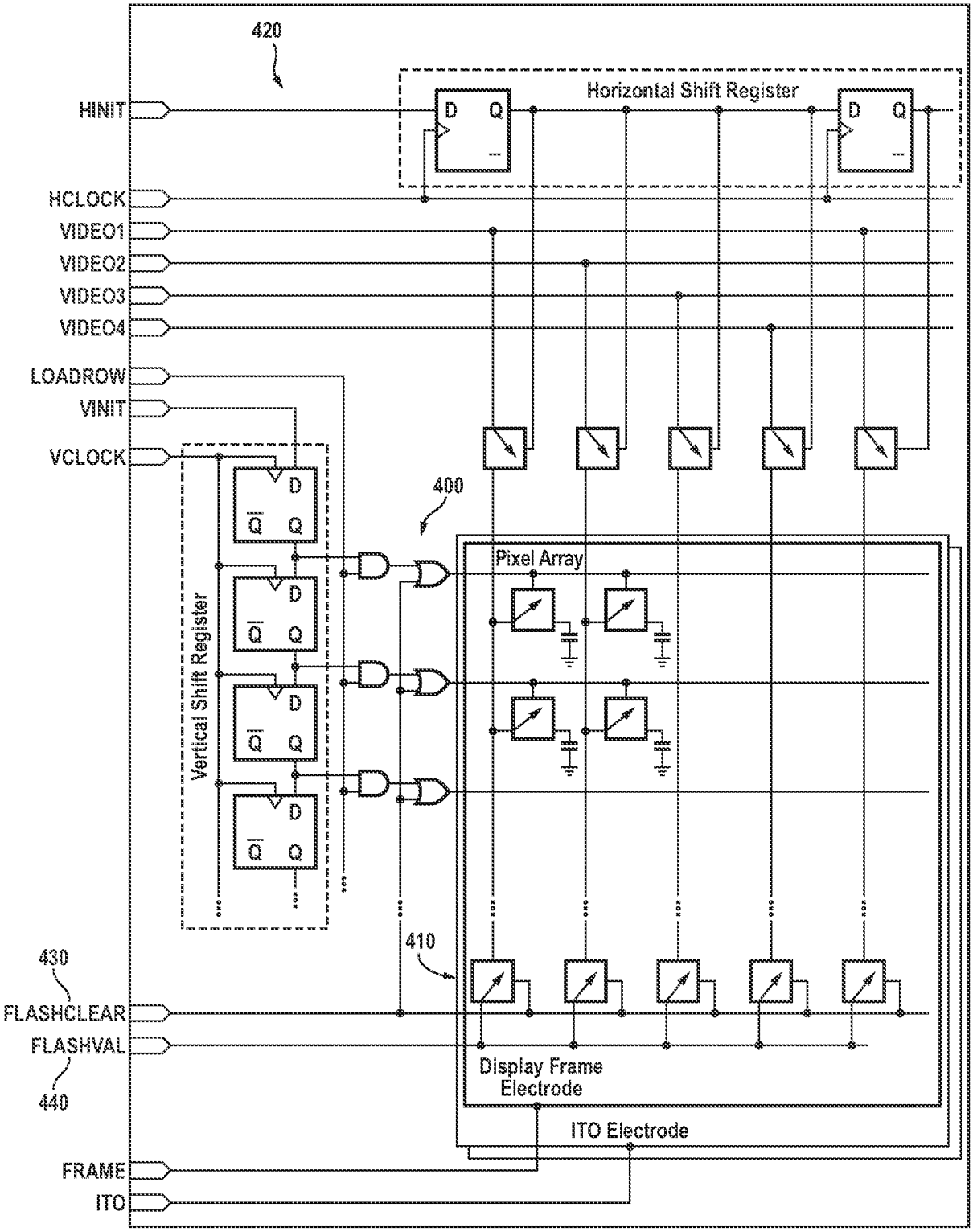

FIG. 4

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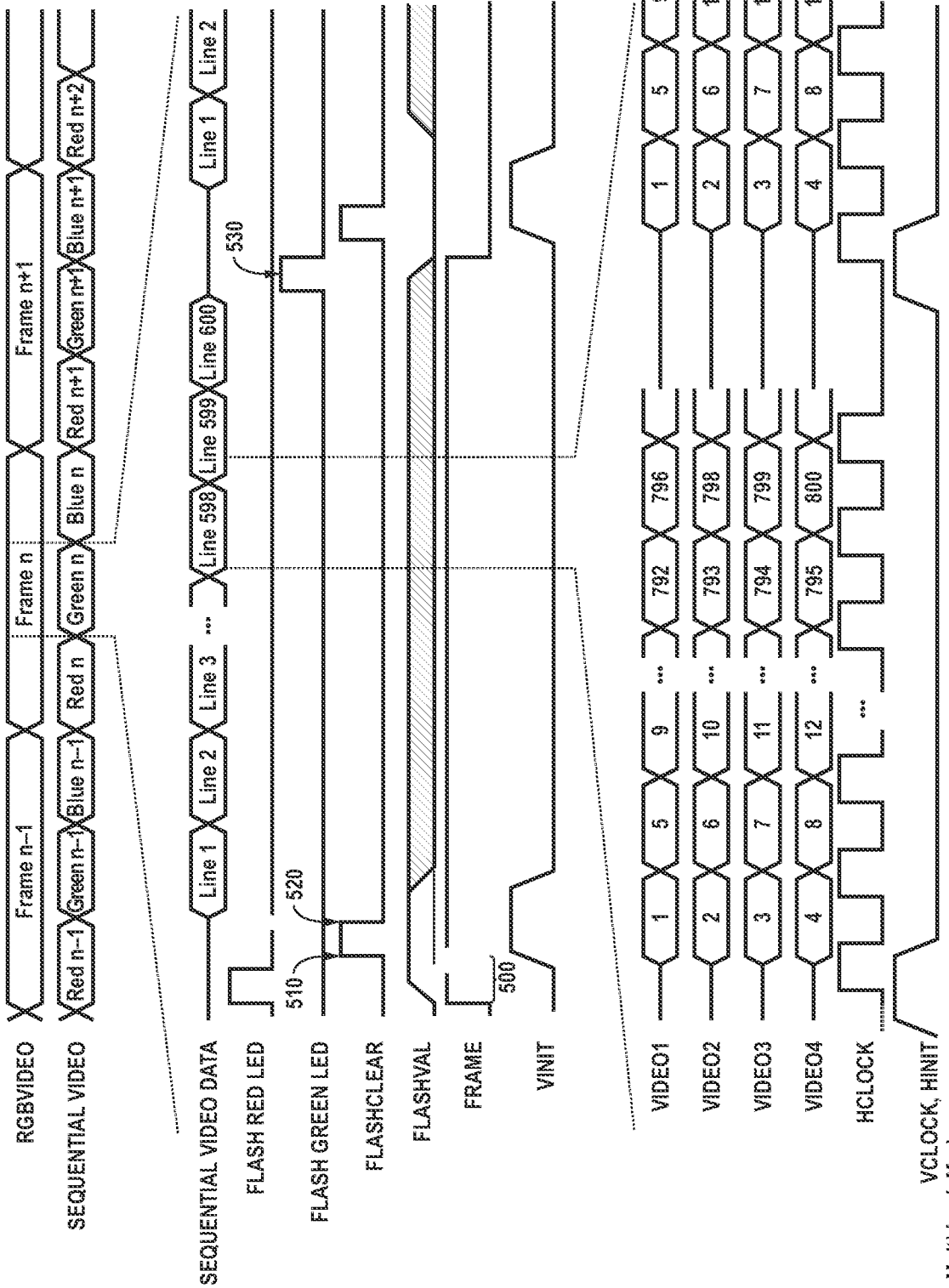

FIG. 5

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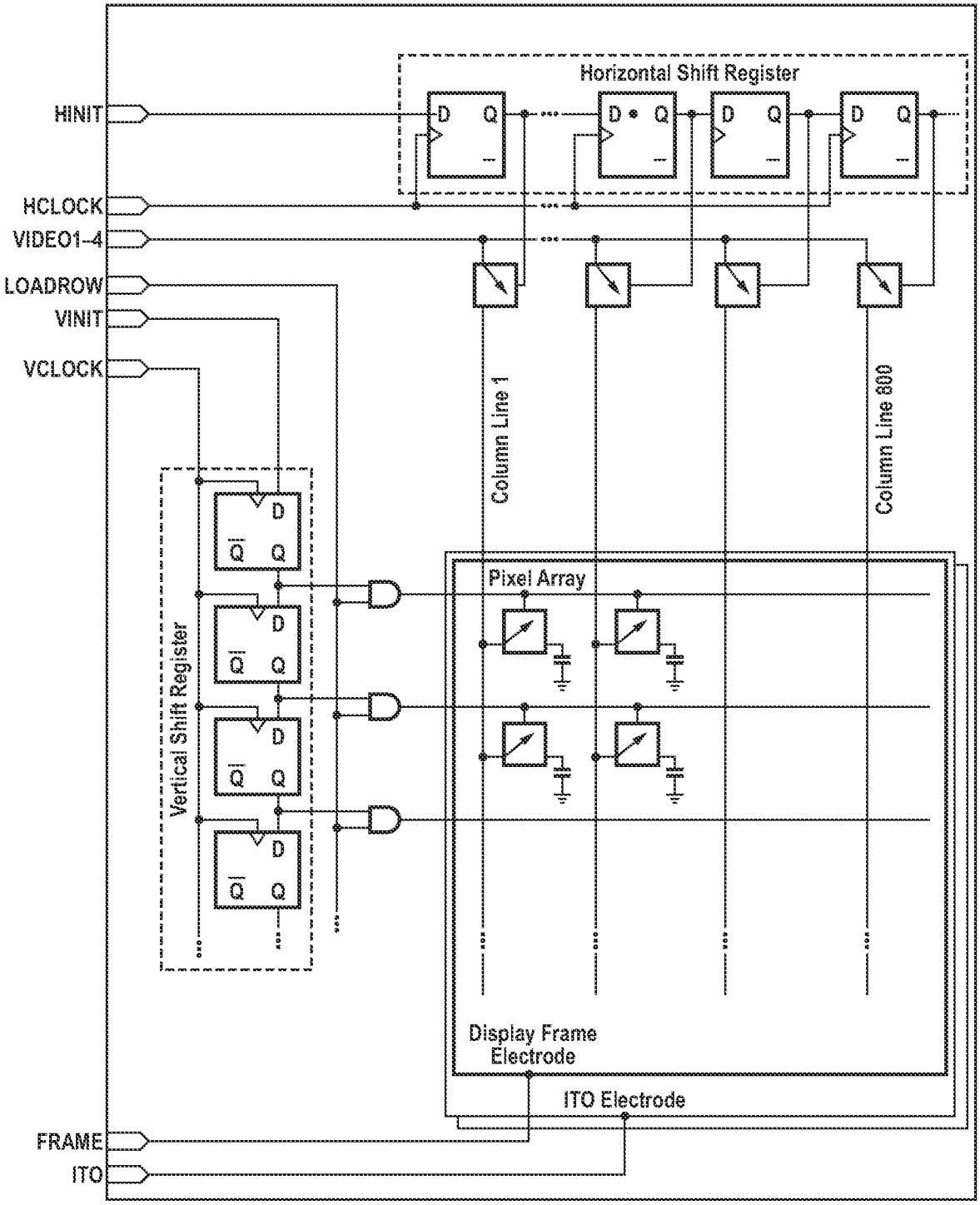

FIG. 6

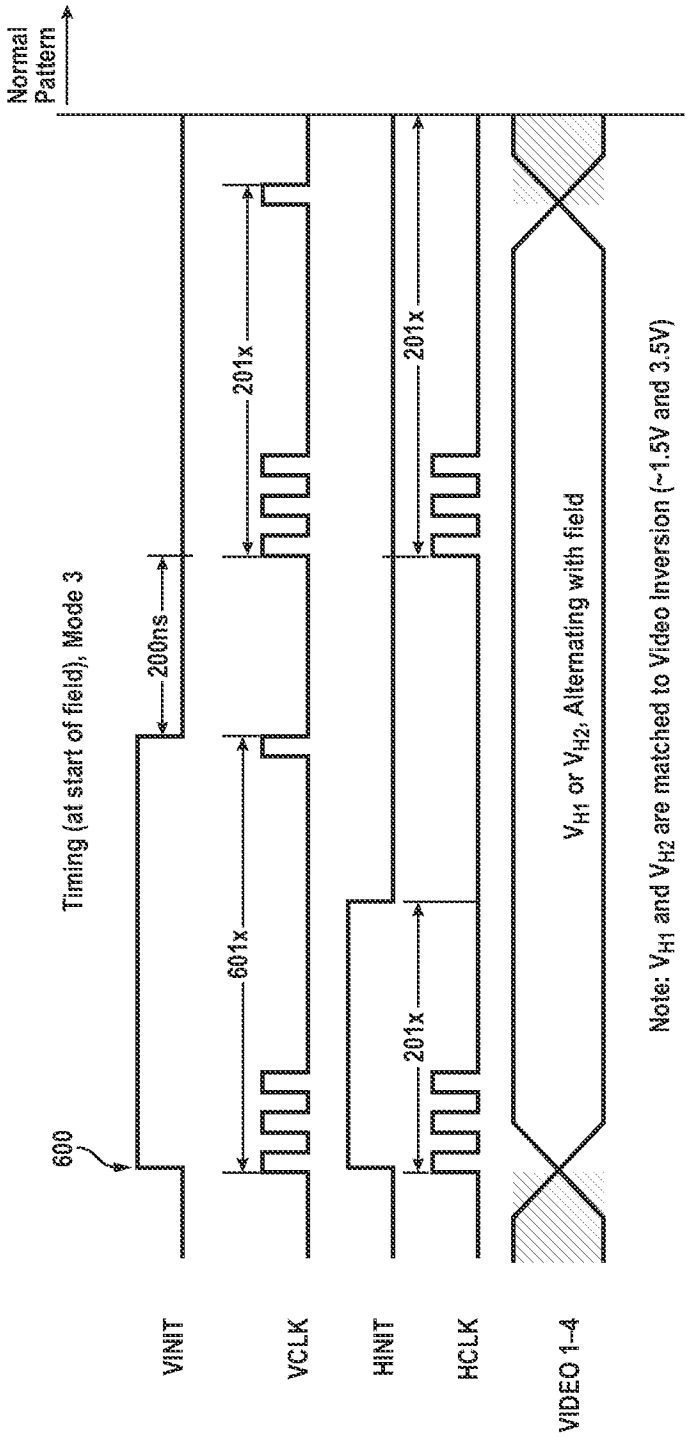
Normal Pattern
Timing (at start of field), Mode 3
200ns
601x
201x
201x
201x
600
VINIT
VCLK
HINIT
HCLK
VIDEO 1-4
V_{H1} or V_{H2}, Alternating with field
Note: V_{H1} and V_{H2} are matched to Video Inversion (~1.5V and 3.5V)

FIG. 7